

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Chung-Kuan Cheng, et al.

Patent No.: 7,765,497

Issued: July 27, 2010

For: **CIRCUIT NETWORK ANALYSIS USING
ALGEBRAIC MULTIGRID APPROACH**

Attention: Certificate of Correction Branch
Commissioner for Patents

P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL OF REQUEST FOR CERTIFICATE OF CORRECTION

Applicant hereby requests that a Certificate of Correction be issued for the above patent in accordance with the attached request.

One or more of the errors sought to be corrected were made by applicant.

Please apply the required fee of 37 CFR §1.20(a) in the amount of \$100 to our Deposit Account No. 50-5252.

Respectfully submitted,

Date: March 30, 2011

/Hwa C. Lee 59747/
Hwa C. Lee
Reg. No. 59,747

Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247
Telephone: (858) 720-5700
Facsimile: (206) 359-7198

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 10

PATENT NO. : 7,765,497
APPLICATION NO. : 10/558,842
ISSUE DATE : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 9, please delete "al," and insert - - al., - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 12, please delete "H.a nd" and insert - - H. and - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 24, please delete "Of" and insert - - of - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 26, please delete "Of" and insert - - of - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 31, please delete "2001. ICCAD" and insert - - 2001, ICCAD - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 38, please delete "1989." and insert - - 1989, - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 47, please delete "Methofs" and insert - - Methods - -, therefor.

MAILING ADDRESS OF SENDER:
Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 2 of 10

PATENT NO. : 7,765,497
APPLICATION NO. : 10/558,842
ISSUE DATE : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 8, please delete "2000." and insert - - 2000, - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 11, please delete "Mathemactics,vol." and insert - - Mathematics, vol. - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 29, please delete "multigrad" and insert - - multigrid - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 32, please delete "On" and insert - - on - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 51, please delete "al," and insert - - al., - -, therefor.

On Page 2, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 61, please delete "al," and insert - - al., - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 3, please delete "1995." and insert - - 1995, - -, therefor.

MAILING ADDRESS OF SENDER:
Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 3 of 10

PATENT NO. : 7,765,497
APPLICATION NO. : 10/558,842
ISSUE DATE : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 6, please delete "2000." and insert - - 2000, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 8, please delete "457-460." and insert - - 457-460, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 17, please delete "al," and insert - - al., - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 21, please delete "al," and insert - - al., - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 23, please delete "1995." and insert - - 1995, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 26, please delete "design." and insert - - design, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 33, please delete "Exhibition." and insert - - Exhibition, - -, therefor.

MAILING ADDRESS OF SENDER:
Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 4 of 10

PATENT NO. : 7,765,497
APPLICATION NO. : 10/558,842
ISSUE DATE : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 41, please delete "2003." and insert - - 2003, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 47, please delete "879-892." and insert - - 879-892, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 57, please delete "30-330." and insert - - 30-330, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 1, Line 60, please delete "58-65." and insert - - 58-65, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 7, please delete "1992." and insert - - 1992, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 10, please delete "668-684." and insert - - 668-684, - -, therefor.

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 22, please delete "1983." and insert - - 1983, - -, therefor.

MAILING ADDRESS OF SENDER:
Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 5 of 10

PATENT NO. : 7,765,497
APPLICATION NO. : 10/558,842
ISSUE DATE : July 27, 2010
INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Page 3, in Field (56), under "OTHER PUBLICATIONS", in Column 2, Line 25, please delete "Pages)." and insert - - Pages), - -, therefor.

In Column 1, Line 23, please delete "Kirchoff's" and insert - - Kirchhoff's - -, therefor.

In Column 4, Line 13, please delete "A1" and insert - -A¹ - -, therefor.

In Column 4, Line 15, please delete "A0" and insert - -A⁰ - -, therefor.

In Column 4, Line 15, please delete "A2" and insert - - A² - -, therefor.

In Column 4, Line 17, please delete "A1" and insert - - A¹ - -, therefor.

In Column 4, Line 19, please delete "A0" and insert - -A⁰ - -, therefor.

In Column 4, Line 19, please delete "A1" and insert - -A¹ - -, therefor.

In Column 4, Line 19, please delete "A2" and insert - -A² - -, therefor.

MAILING ADDRESS OF SENDER:
Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 6 of 10

PATENT NO. : 7,765,497

APPLICATION NO. : 10/558,842

ISSUE DATE : July 27, 2010

INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 4, Line 24, please delete "A0 and A1" and insert - -A⁰ and A¹ - - , therefor.

In Column 4, Line 26, please delete "A2" and insert - -A² - - , therefor.

In Column 4, Line 29, please delete "A0x0=b0" and insert - - A⁰x⁰=b⁰ - - , therefor.

In Column 4, Line 31, please delete "A1x1=b1" and insert - - A¹x¹=b¹ - - , therefor.

In Column 4, Line 33, please delete "A2x2=b2" and insert - - A²x²=b² - - , therefor.

In Column 4, Line 35, please delete "A0 to A1" and insert - - A⁰ to A¹ - - , therefor.

In Column 4, Line 36, please delete "A2" and insert - - A² - - , therefor.

In Column 4, Line 37, please delete "A2 to A1" and insert - - A² to A¹ - - , therefor.

In Column 4, Line 37, please delete "A0" and insert - - A⁰ - - , therefor.

MAILING ADDRESS OF SENDER:

Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 7 of 10

PATENT NO. : 7,765,497

APPLICATION NO. : 10/558,842

ISSUE DATE : July 27, 2010

INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 4, Line 41, please delete "A0→A1→A2→A1→A0" and insert - - A⁰→A¹→A²→A¹→A⁰ - - , therefor.

In Column 4, Line 44, please delete "A0x0=b0" and insert - - A⁰x⁰=b⁰ - - , therefor.

In Column 4, Line 46, please delete "A0x=b" and insert - - A⁰x=b - - , therefor.

In Column 4, Line 48, please delete "A0" and insert - - A⁰ - - , therefor.

In Column 4, Line 50, please delete "(A1)" and insert - - (A¹) - - , therefor.

In Column 4, Line 51, after "in", please delete "A1" and insert - - A¹ - - , therefor.

In Column 4, Line 51, please delete "A0" and insert - - A⁰ - - , therefor.

In Column 4, Line 51, after "on", please delete "A1" and insert - - A¹ - - , therefor.

In Column 4, Line 52, please delete "A0" and insert - - A⁰ - - , therefor.

MAILING ADDRESS OF SENDER:

Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 8 of 10

PATENT NO. : 7,765,497

APPLICATION NO. : 10/558,842

ISSUE DATE : July 27, 2010

INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 4, Line 53, please delete "(A2) based on A1" and insert - - (A²) based on A¹ - - , therefor.

In Column 4, Line 54, please delete "A1" and insert - - A¹ - - , therefor.

In Column 4, Line 55, please delete "A2 is mapped from nodes 3 and 4 on A1" and insert - - A² is mapped from nodes 3 and 4 on A¹ - - , therefor.

In Column 4, Line 56, please delete "(e.g., A1)" and insert - - (e.g., A¹) - - , therefor.

In Column 4, Line 57, please delete "(e.g., A2)" and insert - - (e.g., A²) - - , therefor.

In Column 4, Line 58, please delete "(e.g., A1)" and insert - - (e.g., A¹) - - , therefor.

In Column 4, Line 58, please delete "(e.g., A0)" and insert - - (e.g., A⁰) - - , therefor.

In Column 4, Lines 62-63, please delete "A0x0and b0 for A0, A1x1 and b1 for A1, or A2x2 and b2 for A2" and insert - - A⁰x⁰ and b⁰ for A⁰, A¹x¹ and b¹ for A¹, or A²x² and b² for A² - - , therefor.

MAILING ADDRESS OF SENDER:

Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 9 of 10

PATENT NO. : 7,765,497

APPLICATION NO. : 10/558,842

ISSUE DATE : July 27, 2010

INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 5, Line 11, please delete " I_n^{2h} " and insert $\cdots I_h^{2h} \cdots$, therefor.

In Column 5, Line 12, please delete " I_{2b}^h " and insert $\cdots I_{2h}^h \cdots$, therefor.

In Column 9, Line 5, please delete "V1" and insert $\cdots V^1 \cdots$, therefor.

In Column 9, Lines 10-13, in equation "(4.1)", please delete " $- \begin{bmatrix} G_{11}G_{13} \\ G_{21}G_{33} \end{bmatrix}$ " and insert
 $\cdots - \begin{bmatrix} G_{11}G_{12} \\ G_{21}G_{22} \\ A_{11}A_{12} \end{bmatrix} \cdots$, therefor.

MAILING ADDRESS OF SENDER:
 Bing Ai
 Perkins Coie LLP
 P.O. Box 1247
 Seattle, Washington 98111-1247

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 10 of 10

PATENT NO. : 7,765,497

APPLICATION NO. : 10/558,842

ISSUE DATE : July 27, 2010

INVENTOR(S) : Chung-Kuan Cheng and Zhengyong Zhu

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 9, Line 55, please delete "A1" and insert - - A¹ - - , therefor.

In Column 9, Line 56, please delete "A2" and insert - - A² - - , therefor.

In Column 9, Line 57, please delete "A0" and insert - - A⁰ - - , therefor.

In Column 9, Line 58, after "coarse nodes.", please delete "Coarse nodes".

In Column 10, Line 61, please delete "120 and 120" and insert - - 120 and 130 - - , therefor.

In Column 12, Line 51, in claim 2, please delete "1" and insert - - Claim 1 - - , therefor.

MAILING ADDRESS OF SENDER:

Bing Ai
Perkins Coie LLP
P.O. Box 1247
Seattle, Washington 98111-1247